


STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Ute Tribal 01-15-E4					
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT BRUNDAGE CANYON					
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME					
6. NAME OF OPERATOR PETROGLYPH OPERATING CO						7. OPERATOR PHONE 208 685-7685					
8. ADDRESS OF OPERATOR 960 Broadway Avenue, Ste 500, Boise, ID, 83703						9. OPERATOR E-MAIL ppowell@pgei.com					
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 1420H624743				11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>					
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')					
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')					
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Ute Tribe				18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>		19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>					
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP		RANGE	MERIDIAN		
LOCATION AT SURFACE		194 FSL 1227 FEL		SESE	1	5.0 S		4.0 W	U		
Top of Uppermost Producing Zone		660 FSL 1980 FEL		SWSE	1	5.0 S		4.0 W	U		
At Total Depth		660 FSL 1980 FEL		SWSE	1	5.0 S		4.0 W	U		
21. COUNTY DUCHESNE				22. DISTANCE TO NEAREST LEASE LINE (Feet) 194		23. NUMBER OF ACRES IN DRILLING UNIT 707					
				25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 657		26. PROPOSED DEPTH MD: 7681 TVD: 7572					
27. ELEVATION - GROUND LEVEL 5909				28. BOND NUMBER LPM4138336		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8342					
Hole, Casing, and Cement Information											
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight	
Cond	20	14	0 - 53	5.0	Unknown	10.0	Class G	25	1.17	15.8	
Surf	12.25	8.625	0 - 493	24.0	J-55 ST&C	10.0	Class G	226	1.17	15.8	
Prod	7.875	5.5	0 - 7681	15.5	J-55 LT&C	10.0	Class G	494	1.86	12.5	
							Class G	581	1.46	13.4	
ATTACHMENTS											
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES											
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN						
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER						
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP						
NAME Ed Trotter				TITLE Agent			PHONE 435 789-4120				
SIGNATURE				DATE 08/21/2013			EMAIL edtrotter@easilink.com				
API NUMBER ASSIGNED 43013524020000				APPROVAL <div style="text-align: center;">  Permit Manager </div>							

RECEIVED: August 27, 2013

CONFIDENTIAL
NINE POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 01-15-E4
SE SE, SEC 1, T5S, R4W
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Formation		Subsea	TVD	MD
Rig KB=~13' above GGL		5922	0	0
Surface Formation = Uinta				
Uinta		5909	13	13
Green River		4743	1179	1181
Trona		3401	2521	2569
Mahogany Shale		3250	2672	2725
"B" Marker	Waterflood Unit Interval	2108	3814	3914
"X" Marker		1611	4311	4418
Douglas Creek Marker		1466	4456	4564
"B" Limestone		1066	4856	4965
Base Castle Peak Limestone		529	5393	5502
BSCARB		123	5799	5908
Wasatch		-150	6072	6181
Formation at TD: Wasatch	Rig TD	-1650	7572	7681

2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:

Substance	Formation	Subsea	TVD	MD
Base of moderately saline ground water*	not present	6000	NA	NA
Oil/Gas	Douglas Creek	1466	4456	4564
Oil/Gas	Castle Peak	529	5393	5502

Any water encountered during drilling shall be sampled, analyzed and reported to BLM, Vernal office using State of Utah DOGM Form 7 *Report of Water Encountered during Drilling*. The following analyses shall be performed on any water encountered:

Flow rate (or blowtest)	Temperature	pH	TDS
Dissolved Iron	Dissolved Magnesium	Dissolved Bicarb.	Dissolved Sulfate
Dissolved Calcium	Dissolved Sodium	Dissolved Carbonate	Dissolved Chloride

All depths through the "Base of moderately saline ground water"*, along with any water encountered below that depth which is less than 10,000 TDS, shall be protected by the surface casing or by lifting the cement of the production casing into the surface casing.

*Base of Moderately Saline Groundwater from Howells, Longson and Hunt, 1981, Utah State Technical Publication 92: The Base of the Moderately Saline Water in the Uinta Basin, Utah



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3. PROPOSED CASING PROGRAM:

String	Hole	Casing	Top - MD	Bottom - MD	Weight lb/ft	Grade	Thread
Conductor	20"	14"	surface	53'	steel	Cond'r	none
Surface	12-1/4"	8-5/8"	surface	493'	24	J-55	STC
Production	7-7/8"	5-1/2"	surface	7681'	15.5	J-55	LTC

String	Hole	Casing	Collapse	Burst	Tensile
Surface	12-1/4"	8-5/8"	1,370 psi	2,950 psi	244,000 lb
Production	7-7/8"	5-1/2"	4,040 psi	4,810 psi	248,000 lb

- All casing will be new or inspected.
- The surface and production strings shall have a minimum of one (1) centralizer on each of the bottom three (3) joints.
- The production string shall have a minimum of one (1) centralizer for every three (3) joints from TD to the top of the "B" marker at 3914' MD.

4. PROPOSED CEMENTING PROGRAM:

String	Top	Cement Description	Sacks	Excess	Weight (ppg)	Yield (ft³/sk)
	Bottom		Vol (ft³)			
Conductor	0 ----- 53	Construction Grade Cement	Sufficient volumes to grout Conductor			
Surface	0 ----- 493	Class G +2% CaCl2 +0.25 lb/sk Cello Flake	226 ----- 264	30%	15.8	1.17
Production Lead	0 ----- 3914	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	474 ----- 882	30%	12.5	1.86
Production Tail	3914 ----- 7681	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	581 ----- 849	30%	13.4	1.46

- The 8-5/8" surface casing shall be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.
- The 5-1/2" production casing shall be cemented back to surface. In the event that during the primary cementing operation the cement does not circulate to surface, a remedial cementing operation shall be performed only if necessary to lift cement above the Surface Casing Shoe at 493' MD.



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5. MINIMUM PRESSURE CONTROL AND SAFETY EQUIPMENT:

- An 8", 2000 PSI, Double Ram BOPE with Hydraulic Closing Unit shall be used.
- A 2000 PSI Working Pressure Annular shall be used.
- The flowline shall have a minimum diameter of 10".
- Auxiliary equipment shall be a Kelly Cock, Bit Float, and a TIW valve with drill pipe threads.
- Spark arrestors shall be equipped on all engine exhausts within 100 feet of the wellbore.
- See attached 2,000 psi BOP schematic diagram.

BOPE TESTING PROCEDURE:

- The BOPE shall be tested by a professional tester to conform to Onshore Order #2.

6. MUD PROGRAM:

A. SURFACE HOLE

- The surface hole will be drilled with an air/mist system from 0' to 493'. All cutting shall be directed to pit.
- A trailer-mounted compressor with a capacity of 2000 CFM will be used. Compressor will have a safety shut-off valve located less than 15 feet from the driller's controls of the rig.
- The rat and mouse holes will be drilled with the air rig after surface casing is cemented.
- The 140 barrel water truck used with the deduster will be the source of kill fluid in the highly unlikely event of pressure being encountered during drilling of the surface hole.
- Operator requests the following variances from Onshore Order 2 part E during drilling of the surface hole. Operator will use air drilling techniques only on surface hole:
 - Operator requests a variance to regulations requiring the blooie line discharge to be 100' from the wellbore. Due to reduced location size, the blooie line discharge will be approximately 75' from the wellbore and securely anchored.
 - Operator requests a variance to regulations requiring an automatic igniter or continuous pilot light on the blooie line. A mister shall be on the end of the blooie line.
 - Operator requests a variance to regulations requiring compressors be located in the opposite direction from the blooie line; a minimum of 100' from the wellbore. Due to the reduced location size, the compressors shall be located as close as is reasonable to the opposite direction from the blooie line and 75' from the wellbore.
 - Operator requests a variance to regulations requiring a BOPE on the hole when drilling the surface hole. An air bowl shall be utilized on the diverter system in place of a BOPE.



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B. PRODUCTION HOLE

- The production hole shall be drilled with a freshwater polymer system from 493' to 7681'. LSND mud if conditions warrant.
- Clay inhibition and hole stability shall be achieved with a Diammonium Phosphate (DAP) additive or similar source of clay-stabilizing ions. Anticipated mud weight is 8.3-8.8 lbs/gal. although mud weight up to 10lbs/gal may be used if necessary to prevent wellbore wall instability due to the planned inclination of the well.
- All cuttings and circulating medium shall be directed into the reserve pit. Total Dissolved Solids (TDS) are anticipated to be less than 3000 PPM.
- Sufficient mud inventory will be maintained on location in either tanks or the reserve pit during the drilling of the production hole to handle any adverse conditions that may arise.
- If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite. Enough material shall be maintained on location to allow for the mudweight to be raised to 10.5 lbs/gal should need arise.
- During drilling operations, pit levels and flow from the well shall be monitored by instrumentation to include at least: a pit volume totalizer (PVT), a stroke counter, and a mud-flow indicator.
- A mud-gas separator shall be available on location.

C. HAZARDOUS MATERIALS AND POLLUTANTS

- Chromate additives **shall NOT** be used in the mud system on Indian lands without prior DOGM approval to ensure adequate protection of freshwater aquifers.
- Chemicals subject to reporting under SARA Title III in an amounts equal to or greater than 10,000 pounds annually **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Hazardous substances specifically listed by the EPA as a hazardous waste, as defined in 40 CFR 261 (D), or any substances that through their use would lead to the generation of a hazardous waste, **shall NOT** be used in association with the drilling, testing, or completion of this well.



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7. EVALUATION PROGRAM:

Logs: Triple Combo TD to base of surface casing (AIT, DSN, CDL)
Base of surface casing to surface (GR only)

Cores: None planned

DST: None planned

Testing: Operator plans no testing until the completion phase of the well.

8. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

- Operator anticipates Bottom Hole Temperatures below 150°F, the maximum temperature for DAP drilling fluids.
- No H₂S has been encountered or is known to exist from previous drilling in the area at this depth.
- Maximum pressure for hydrocarbon bearing zones at native conditions in this area is approximately 1920 PSI (0.25 PSI/ft gradient).
- This well is NOT in the vicinity of active injection wells. Nearby active injection can cause pressures up to a 0.433 PSI/ft gradient .

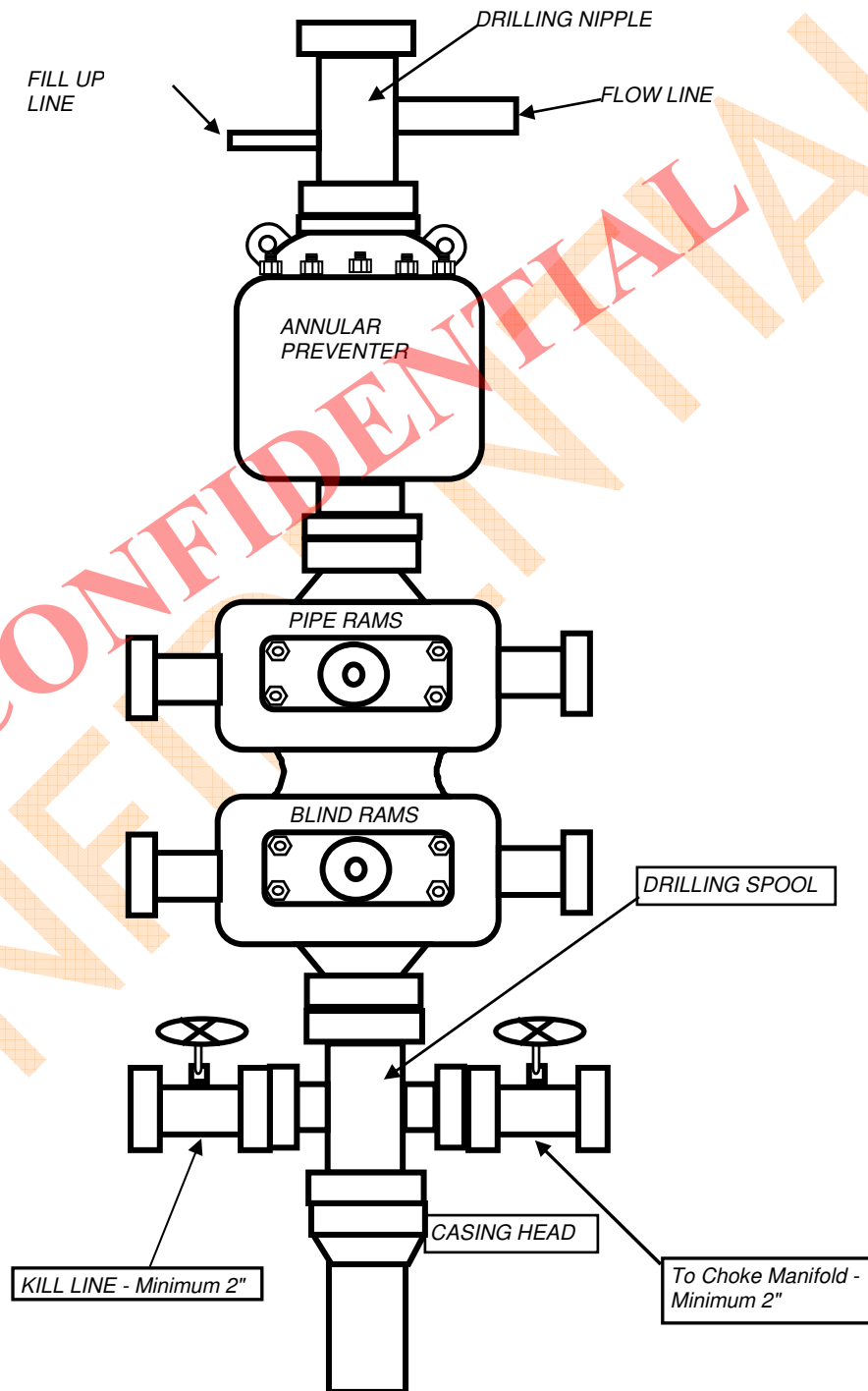
9. DIRECTIONAL WELL PLAN:

- Well shall be drilled directionally in order to limit surface disturbance.
- A Positive Displacement Motor with a bent sub of 1.25° to 1.75° will be used to control well path.
- A directional survey shall be taken at least one (1) time per 100' of drilling.
- Anti-collision equipment will not be used as there are no existing wells in the vicinity of the proposed well path.
- While cutting the Waterflood Unit Interval from 3914' to 5908', the actual well path may be allowed to vary up to 100' horizontally from plan in order to prevent excessive slide drilling. Above and below the Waterflood Unit Interval, variances in excess 100' horizontally from plan may be allowed.
- Directional drilling plan is attached.

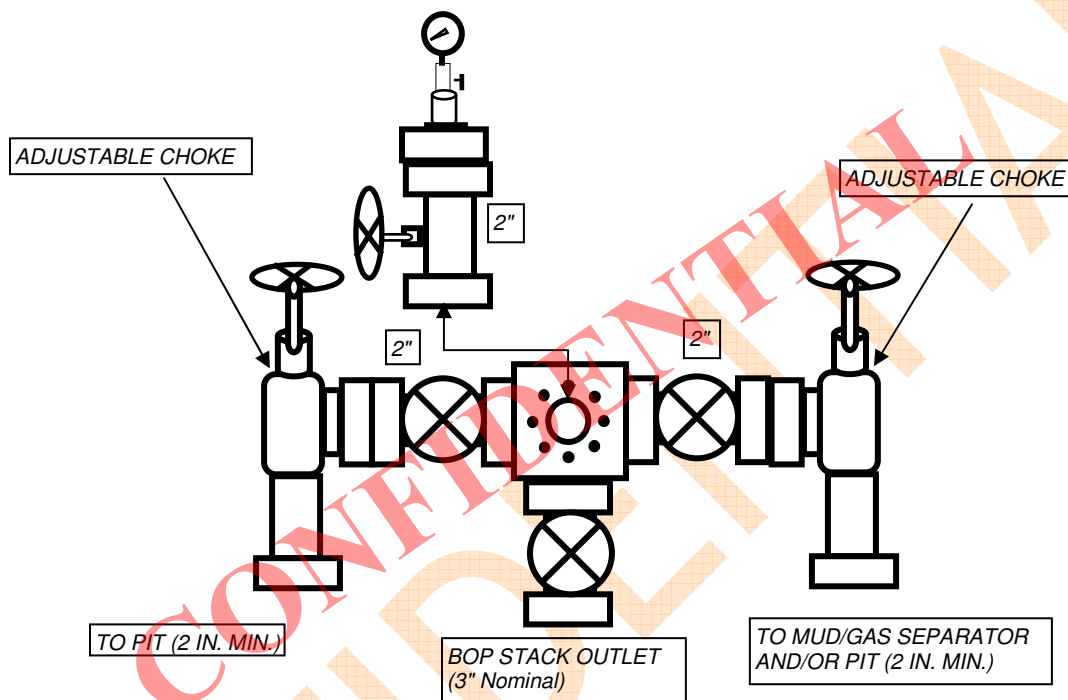


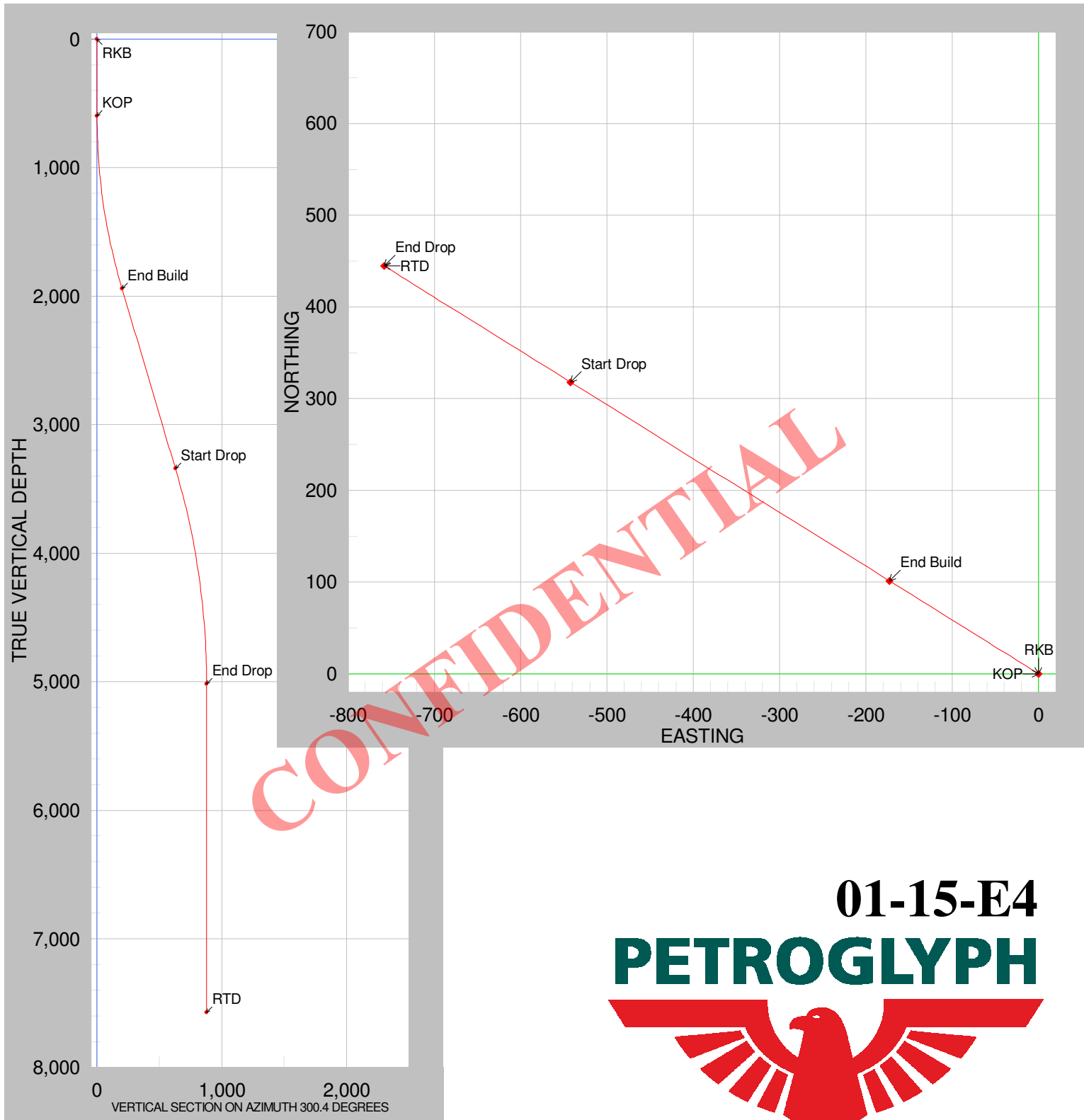
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TYPICAL 2,000 p.s.i. BLOWOUT PREVENTER



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TYPICAL 2,000 p.s.i. CHOKE MANIFOLD





01-15-E4
PETROGLYPH



#	Reference	Type	MD	Inc	Azi	TVD	N	E	DLS	Vert S
0	RKB	Tie Point	0.00	0.00	0.00	0.00	0.00	0.00		0.00
1	KOP	Vertical	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00
2	End Build	Build	1960.00	17.00	300.40	1940.13	101.35	-172.75	1.25	200.28
3	Start Drop	Tangent	3425.00	17.00	300.40	3341.12	318.10	-542.18	0.00	628.61
4	End Drop	Drop	5125.00	0.00	0.00	5016.29	444.79	-758.12	1.00	878.96
5	RTD	Vertical	7681.00	0.00	0.00	7572.29	444.79	-758.12	0.00	878.96

RECEIVED: August 21, 2013

01-15-E4, Plan 1

01-15-E4, Plan 1										
Operator		Units		15:06 Thursday, August 08, 2013 Page 1 of 5						
Field		County		Vertical Section Azimuth 300.4						
Well Name 01-15-E4		State		Survey Calculation Method Minimum Curvature						
Plan 1		Country		Database Access						
Location SHL: 194' FSL & 1227' FEL BHL: 660' FSL & 1980' FEL				MapZone				Lat Long Ref		
Site		UWI		SurfaceX				Surface Long		
Slot Name		API		SurfaceY				Surface Lat		
Well Number				Z Datum						
Project				Surface Z				Ground Level		
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
*** RKB (at MD = 0.00)										
0.00	0.00	0.0	0.00	0.00	0.00		0.00			
50.00	0.00	0.0	50.00	0.00	0.00	0.00	0.00			
100.00	0.00	0.0	100.00	0.00	0.00	0.00	0.00			
150.00	0.00	0.0	150.00	0.00	0.00	0.00	0.00			
200.00	0.00	0.0	200.00	0.00	0.00	0.00	0.00			
250.00	0.00	0.0	250.00	0.00	0.00	0.00	0.00			
300.00	0.00	0.0	300.00	0.00	0.00	0.00	0.00			
350.00	0.00	0.0	350.00	0.00	0.00	0.00	0.00			
400.00	0.00	0.0	400.00	0.00	0.00	0.00	0.00			
450.00	0.00	0.0	450.00	0.00	0.00	0.00	0.00			
500.00	0.00	0.0	500.00	0.00	0.00	0.00	0.00			
550.00	0.00	0.0	550.00	0.00	0.00	0.00	0.00			
*** KOP (at MD = 600.00)										
600.00	0.00	0.0	600.00	0.00	0.00	0.00	0.00			
650.00	0.63	300.4	650.00	0.14	-0.24	1.25	0.27			
700.00	1.25	300.4	699.99	0.55	-0.94	1.25	1.09			
750.00	1.88	300.4	749.97	1.24	-2.12	1.25	2.45			
800.00	2.50	300.4	799.94	2.21	-3.76	1.25	4.36			
850.00	3.13	300.4	849.88	3.45	-5.88	1.25	6.82			
900.00	3.75	300.4	899.79	4.97	-8.46	1.25	9.81			
950.00	4.38	300.4	949.66	6.76	-11.52	1.25	13.36			
1000.00	5.00	300.4	999.49	8.83	-15.04	1.25	17.44			
1050.00	5.63	300.4	1049.28	11.17	-19.04	1.25	22.07			
1100.00	6.25	300.4	1099.01	13.79	-23.50	1.25	27.24			
1150.00	6.88	300.4	1148.68	16.68	-28.43	1.25	32.96			
1200.00	7.50	300.4	1198.29	19.84	-33.82	1.25	39.21			
1250.00	8.13	300.4	1247.82	23.28	-39.68	1.25	46.01			
1300.00	8.75	300.4	1297.28	27.00	-46.01	1.25	53.35			
1350.00	9.38	300.4	1346.66	30.98	-52.81	1.25	61.22			
1400.00	10.00	300.4	1395.94	35.24	-60.06	1.25	69.64			
1450.00	10.63	300.4	1445.14	39.77	-67.78	1.25	78.59			
1500.00	11.25	300.4	1494.23	44.57	-75.96	1.25	88.07			
1550.00	11.88	300.4	1543.21	49.64	-84.61	1.25	98.10			
1600.00	12.50	300.4	1592.09	54.98	-93.71	1.25	108.65			
1650.00	13.13	300.4	1640.84	60.59	-103.28	1.25	119.74			

01-15-E4, Plan 1

01-15-E4, Plan 1										
Operator		Units		15:06 Thursday, August 08, 2013 Page 2 of 5						
Field		feet, %/100ft								
Well Name		County		Vertical Section Azimuth 300.4						
01-15-E4		State		Survey Calculation Method Minimum Curvature						
Plan 1		Country		Database Access						
Location				SHL: 194' FSL & 1227' FEL BHL: 660' FSL & 1980' FEL				MapZone		Lat Long Ref
Site						SurfaceX		Surface Long		
Slot Name		UWI				SurfaceY		Surface Lat		
Well Number		API				Z Datum				
Project						Surface Z		Ground Level		
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
1700.00	13.75	300.4	1689.47	66.47	-113.30	1.25	131.36			
1750.00	14.38	300.4	1737.97	72.62	-123.78	1.25	143.51			
1800.00	15.00	300.4	1786.34	79.03	-134.71	1.25	156.18			
1850.00	15.63	300.4	1834.56	85.72	-146.10	1.25	169.39			
1900.00	16.25	300.4	1882.64	92.66	-157.94	1.25	183.12			
1950.00	16.88	300.4	1930.57	99.88	-170.24	1.25	197.37			
*** END BUILD (at MD = 1960.00)										
1960.00	17.00	300.4	1940.13	101.35	-172.75	1.25	200.28			
2000.00	17.00	300.4	1978.39	107.27	-182.83	0.00	211.98			
2050.00	17.00	300.4	2026.20	114.67	-195.44	0.00	226.60			
2100.00	17.00	300.4	2074.02	122.06	-208.05	0.00	241.22			
2150.00	17.00	300.4	2121.83	129.46	-220.66	0.00	255.83			
2200.00	17.00	300.4	2169.65	136.86	-233.27	0.00	270.45			
2250.00	17.00	300.4	2217.46	144.26	-245.88	0.00	285.07			
2300.00	17.00	300.4	2265.28	151.65	-258.49	0.00	299.69			
2350.00	17.00	300.4	2313.09	159.05	-271.10	0.00	314.31			
2400.00	17.00	300.4	2360.91	166.45	-283.70	0.00	328.93			
2450.00	17.00	300.4	2408.72	173.85	-296.31	0.00	343.55			
2500.00	17.00	300.4	2456.54	181.24	-308.92	0.00	358.17			
2550.00	17.00	300.4	2504.35	188.64	-321.53	0.00	372.78			
2600.00	17.00	300.4	2552.17	196.04	-334.14	0.00	387.40			
2650.00	17.00	300.4	2599.98	203.44	-346.75	0.00	402.02			
2700.00	17.00	300.4	2647.80	210.83	-359.36	0.00	416.64			
2750.00	17.00	300.4	2695.61	218.23	-371.97	0.00	431.26			
2800.00	17.00	300.4	2743.43	225.63	-384.57	0.00	445.88			
2850.00	17.00	300.4	2791.24	233.03	-397.18	0.00	460.50			
2900.00	17.00	300.4	2839.06	240.42	-409.79	0.00	475.11			
2950.00	17.00	300.4	2886.87	247.82	-422.40	0.00	489.73			
3000.00	17.00	300.4	2934.69	255.22	-435.01	0.00	504.35			
3050.00	17.00	300.4	2982.51	262.62	-447.62	0.00	518.97			
3100.00	17.00	300.4	3030.32	270.01	-460.23	0.00	533.59			
3150.00	17.00	300.4	3078.14	277.41	-472.84	0.00	548.21			
3200.00	17.00	300.4	3125.95	284.81	-485.44	0.00	562.83			
3250.00	17.00	300.4	3173.77	292.21	-498.05	0.00	577.44			
3300.00	17.00	300.4	3221.58	299.60	-510.66	0.00	592.06			

01-15-E4, Plan 1

01-15-E4, Plan 1									
Operator		Units		15:06 Thursday, August 08, 2013 Page 3 of 5					
Field		County		Vertical Section Azimuth 300.4					
Well Name 01-15-E4		State		Survey Calculation Method Minimum Curvature					
Plan 1		Country		Database Access					
Location SHL: 194' FSL & 1227' FEL BHL: 660' FSL & 1980' FEL				MapZone		Lat Long Ref			
Site				SurfaceX		Surface Long			
Slot Name		UWI		SurfaceY		Surface Lat			
Well Number		API		Z Datum					
Project				Surface Z		Ground Level			
DIRECTIONAL WELL PLAN									
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft
3350.00	17.00	300.4	3269.40	307.00	-523.27	0.00	606.68		
3400.00	17.00	300.4	3317.21	314.40	-535.88	0.00	621.30		
*** START DROP (at MD = 3425.00)									
3425.00	17.00	300.4	3341.12	318.10	-542.18	0.00	628.61		
3450.00	16.75	300.4	3365.04	321.77	-548.44	1.00	635.87		
3500.00	16.25	300.4	3412.98	328.96	-560.69	1.00	650.07		
3550.00	15.75	300.4	3461.05	335.93	-572.58	1.00	663.85		
3600.00	15.25	300.4	3509.23	342.69	-584.10	1.00	677.21		
3650.00	14.75	300.4	3557.52	349.24	-595.26	1.00	690.15		
3700.00	14.25	300.4	3605.93	355.57	-606.06	1.00	702.67		
3750.00	13.75	300.4	3654.45	361.70	-616.50	1.00	714.77		
3800.00	13.25	300.4	3703.06	367.60	-626.56	1.00	726.44		
3850.00	12.75	300.4	3751.78	373.29	-636.26	1.00	737.69		
3900.00	12.25	300.4	3800.60	378.77	-645.60	1.00	748.51		
3950.00	11.75	300.4	3849.50	384.03	-654.56	1.00	758.90		
4000.00	11.25	300.4	3898.50	389.08	-663.16	1.00	768.87		
4050.00	10.75	300.4	3947.58	393.90	-671.39	1.00	778.41		
4100.00	10.25	300.4	3996.74	398.51	-679.25	1.00	787.52		
4150.00	9.75	300.4	4045.98	402.91	-686.74	1.00	796.21		
4200.00	9.25	300.4	4095.30	407.08	-693.86	1.00	804.46		
4250.00	8.75	300.4	4144.68	411.04	-700.60	1.00	812.28		
4300.00	8.25	300.4	4194.13	414.78	-706.98	1.00	819.67		
4350.00	7.75	300.4	4243.65	418.30	-712.98	1.00	826.63		
4400.00	7.25	300.4	4293.22	421.61	-718.61	1.00	833.16		
4450.00	6.75	300.4	4342.85	424.69	-723.86	1.00	839.25		
4500.00	6.25	300.4	4392.52	427.55	-728.75	1.00	844.91		
4550.00	5.75	300.4	4442.25	430.20	-733.25	1.00	850.14		
4600.00	5.25	300.4	4492.02	432.62	-737.39	1.00	854.93		
4650.00	4.75	300.4	4541.83	434.83	-741.15	1.00	859.29		
4700.00	4.25	300.4	4591.68	436.81	-744.53	1.00	863.21		
4750.00	3.75	300.4	4641.55	438.58	-747.54	1.00	866.70		
4800.00	3.25	300.4	4691.46	440.12	-750.17	1.00	869.75		
4850.00	2.75	300.4	4741.39	441.45	-752.43	1.00	872.37		
4900.00	2.25	300.4	4791.34	442.55	-754.31	1.00	874.55		
4950.00	1.75	300.4	4841.31	443.43	-755.81	1.00	876.29		

01-15-E4, Plan 1

01-15-E4, Plan 1										
Operator Field Well Name 01-15-E4 Plan 1			Units feet, %/100ft County State Country			15:06 Thursday, August 08, 2013 Page 4 of 5 Vertical Section Azimuth 300.4 Survey Calculation Method Minimum Curvature Database Access				
Location SHL: 194' FSL & 1227' FEL BHL: 660' FSL & 1980' FEL			MapZone			Lat Long Ref				
Site			SurfaceX			Surface Long				
Slot Name			SurfaceY			Surface Lat				
Well Number			Z Datum							
Project			Surface Z			Ground Level				
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
5000.00	1.25	300.4	4891.30	444.10	-756.94	1.00	877.60			
5050.00	0.75	300.4	4941.29	444.54	-757.70	1.00	878.47			
5100.00	0.25	300.4	4991.29	444.76	-758.07	1.00	878.91			
*** END DROP (at MD = 5125.00)										
5125.00	0.00	0.0	5016.29	444.79	-758.12	1.00	878.96			
5150.00	0.00	0.0	5041.29	444.79	-758.12	0.00	878.96			
5200.00	0.00	0.0	5091.29	444.79	-758.12	0.00	878.96			
5250.00	0.00	0.0	5141.29	444.79	-758.12	0.00	878.96			
5300.00	0.00	0.0	5191.29	444.79	-758.12	0.00	878.96			
5350.00	0.00	0.0	5241.29	444.79	-758.12	0.00	878.96			
5400.00	0.00	0.0	5291.29	444.79	-758.12	0.00	878.96			
5450.00	0.00	0.0	5341.29	444.79	-758.12	0.00	878.96			
5500.00	0.00	0.0	5391.29	444.79	-758.12	0.00	878.96			
5550.00	0.00	0.0	5441.29	444.79	-758.12	0.00	878.96			
5600.00	0.00	0.0	5491.29	444.79	-758.12	0.00	878.96			
5650.00	0.00	0.0	5541.29	444.79	-758.12	0.00	878.96			
5700.00	0.00	0.0	5591.29	444.79	-758.12	0.00	878.96			
5750.00	0.00	0.0	5641.29	444.79	-758.12	0.00	878.96			
5800.00	0.00	0.0	5691.29	444.79	-758.12	0.00	878.96			
5850.00	0.00	0.0	5741.29	444.79	-758.12	0.00	878.96			
5900.00	0.00	0.0	5791.29	444.79	-758.12	0.00	878.96			
5950.00	0.00	0.0	5841.29	444.79	-758.12	0.00	878.96			
6000.00	0.00	0.0	5891.29	444.79	-758.12	0.00	878.96			
6050.00	0.00	0.0	5941.29	444.79	-758.12	0.00	878.96			
6100.00	0.00	0.0	5991.29	444.79	-758.12	0.00	878.96			
6150.00	0.00	0.0	6041.29	444.79	-758.12	0.00	878.96			
6200.00	0.00	0.0	6091.29	444.79	-758.12	0.00	878.96			
6250.00	0.00	0.0	6141.29	444.79	-758.12	0.00	878.96			
6300.00	0.00	0.0	6191.29	444.79	-758.12	0.00	878.96			
6350.00	0.00	0.0	6241.29	444.79	-758.12	0.00	878.96			
6400.00	0.00	0.0	6291.29	444.79	-758.12	0.00	878.96			
6450.00	0.00	0.0	6341.29	444.79	-758.12	0.00	878.96			
6500.00	0.00	0.0	6391.29	444.79	-758.12	0.00	878.96			
6550.00	0.00	0.0	6441.29	444.79	-758.12	0.00	878.96			
6600.00	0.00	0.0	6491.29	444.79	-758.12	0.00	878.96			

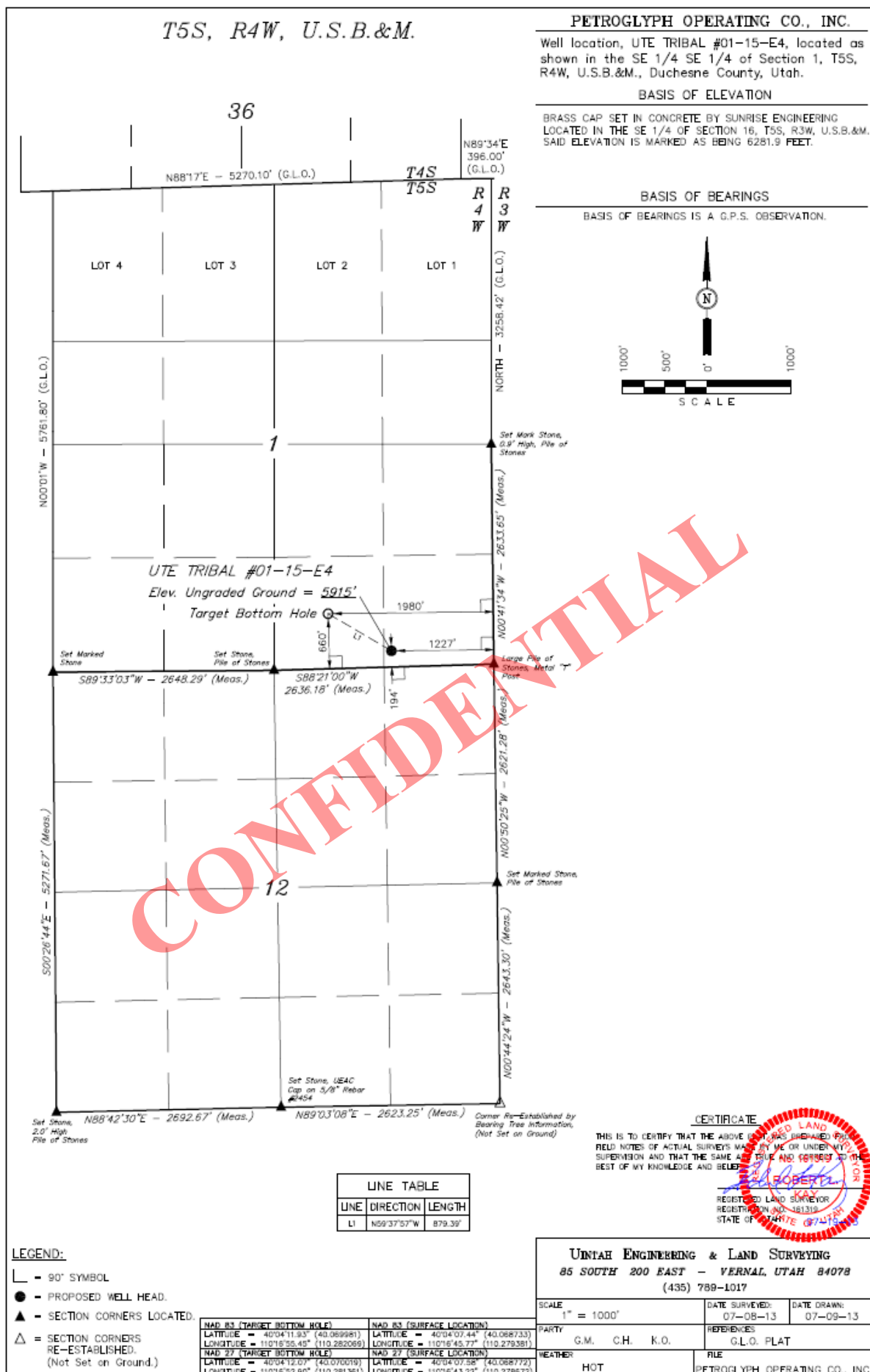
01-15-E4, Plan 1

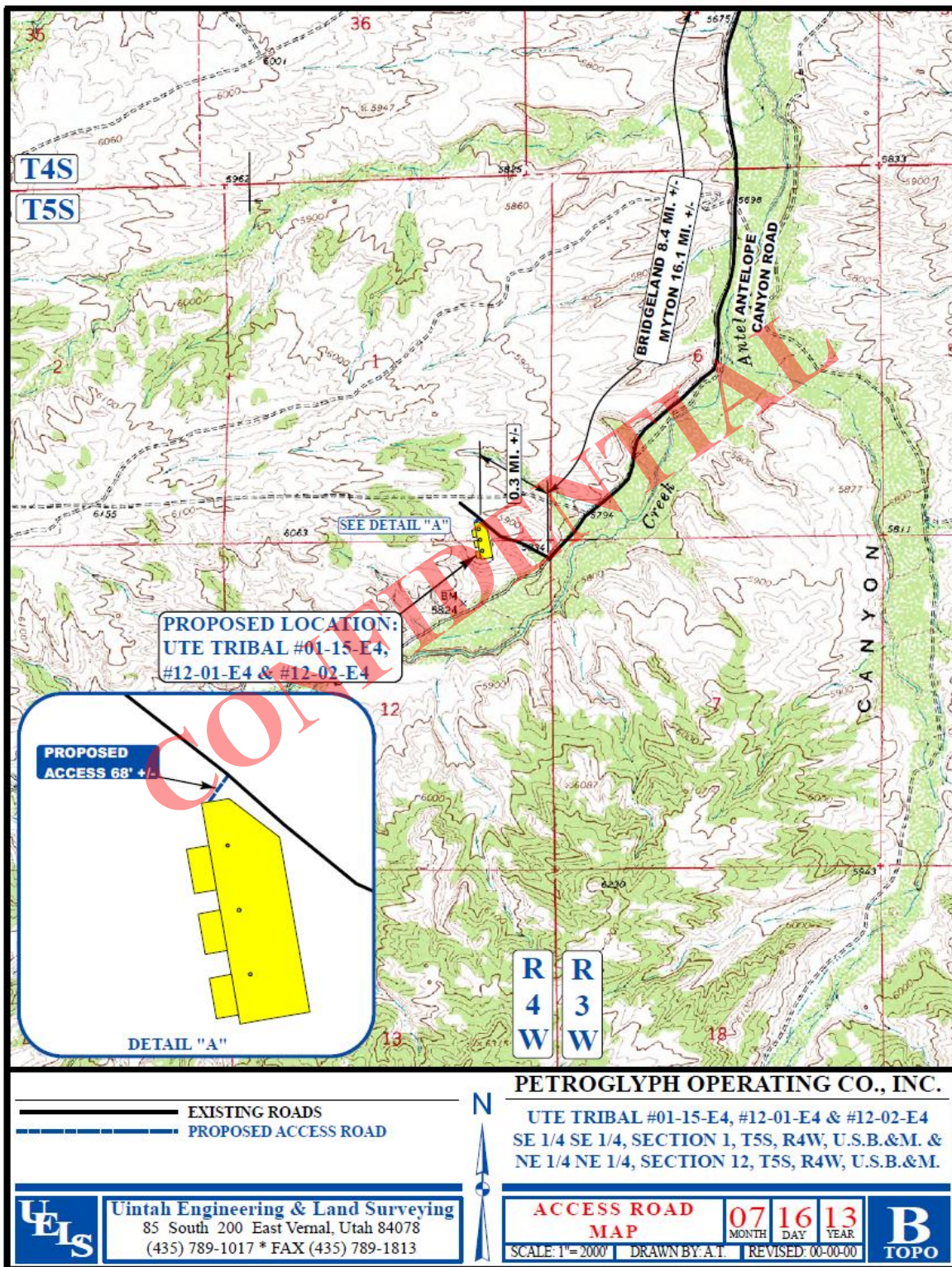
Operator		Units	feet, %/100ft	15:06 Thursday, August 08, 2013	Page 5 of 5
Field		County		Vertical Section Azimuth	300.4
Well Name	01-15-E4	State		Survey Calculation Method	Minimum Curvature
Plan	1	Country		Database	Access

Location	SHL: 194' FSL & 1227' FEL BHL: 660' FSL & 1980' FEL	MapZone		Lat Long Ref	
Site		SurfaceX		Surface Long	
Slot Name		SurfaceY		Surface Lat	
Well Number	UWI	Z Datum			
Project	API	Surface Z		Ground Level	

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
6650.00	0.00	0.0	6541.29	444.79	-758.12	0.00	878.96			
6700.00	0.00	0.0	6591.29	444.79	-758.12	0.00	878.96			
6750.00	0.00	0.0	6641.29	444.79	-758.12	0.00	878.96			
6800.00	0.00	0.0	6691.29	444.79	-758.12	0.00	878.96			
6850.00	0.00	0.0	6741.29	444.79	-758.12	0.00	878.96			
6900.00	0.00	0.0	6791.29	444.79	-758.12	0.00	878.96			
6950.00	0.00	0.0	6841.29	444.79	-758.12	0.00	878.96			
7000.00	0.00	0.0	6891.29	444.79	-758.12	0.00	878.96			
7050.00	0.00	0.0	6941.29	444.79	-758.12	0.00	878.96			
7100.00	0.00	0.0	6991.29	444.79	-758.12	0.00	878.96			
7150.00	0.00	0.0	7041.29	444.79	-758.12	0.00	878.96			
7200.00	0.00	0.0	7091.29	444.79	-758.12	0.00	878.96			
7250.00	0.00	0.0	7141.29	444.79	-758.12	0.00	878.96			
7300.00	0.00	0.0	7191.29	444.79	-758.12	0.00	878.96			
7350.00	0.00	0.0	7241.29	444.79	-758.12	0.00	878.96			
7400.00	0.00	0.0	7291.29	444.79	-758.12	0.00	878.96			
7450.00	0.00	0.0	7341.29	444.79	-758.12	0.00	878.96			
7500.00	0.00	0.0	7391.29	444.79	-758.12	0.00	878.96			
7550.00	0.00	0.0	7441.29	444.79	-758.12	0.00	878.96			
7600.00	0.00	0.0	7491.29	444.79	-758.12	0.00	878.96			
7650.00	0.00	0.0	7541.29	444.79	-758.12	0.00	878.96			
*** RTD (at MD = 7681.00)										
7681.00	0.00	0.0	7572.29	444.79	-758.12	0.00	878.96			





PETROGLYPH OPERATING CO., INC.
P.O. BOX 607
ROOSEVELT, UTAH 84066

August 21, 2013

Ms. Diana Mason
State of Utah
Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

Re: Directional Drilling R649-3-11
Ute Tribal 01-15-E4

194' FSL & 1227' FEL, SE/SE, (Surface Hole)
660' FSL & 1980' FEL, SW/SE, (Bottom Hole)
Sec. 1, T5S, R4W, U.S.B. & M.,

Dear Ms. Mason,

Pursuant to the filing of Petroglyph Operating Co., Inc.'s Application for Permit to Drill regarding the above referenced well on August 21, 2013, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- The Ute Tribal 17-02 is located within the Antelope Creek Unit Area.
- Petroglyph Operating Co., Inc. is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and drilling directionally from this location, Petroglyph Operating Co., Inc. will be able to utilize the existing road and pipelines in the area.
- Furthermore, Petroglyph Operating Co., Inc. hereby certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Petroglyph Operating Co., Inc. requests the permit be granted pursuant to R649-3-11.

Respectfully Submitted,

Ed Trotter,
Agent
P.O. Box 1910
Vernal, UT 84078
Phone: (435)789-4120
Fax: (435)789-1420
E-mail: edtrotter@easilink.com

RECEIVED: August 21, 2013

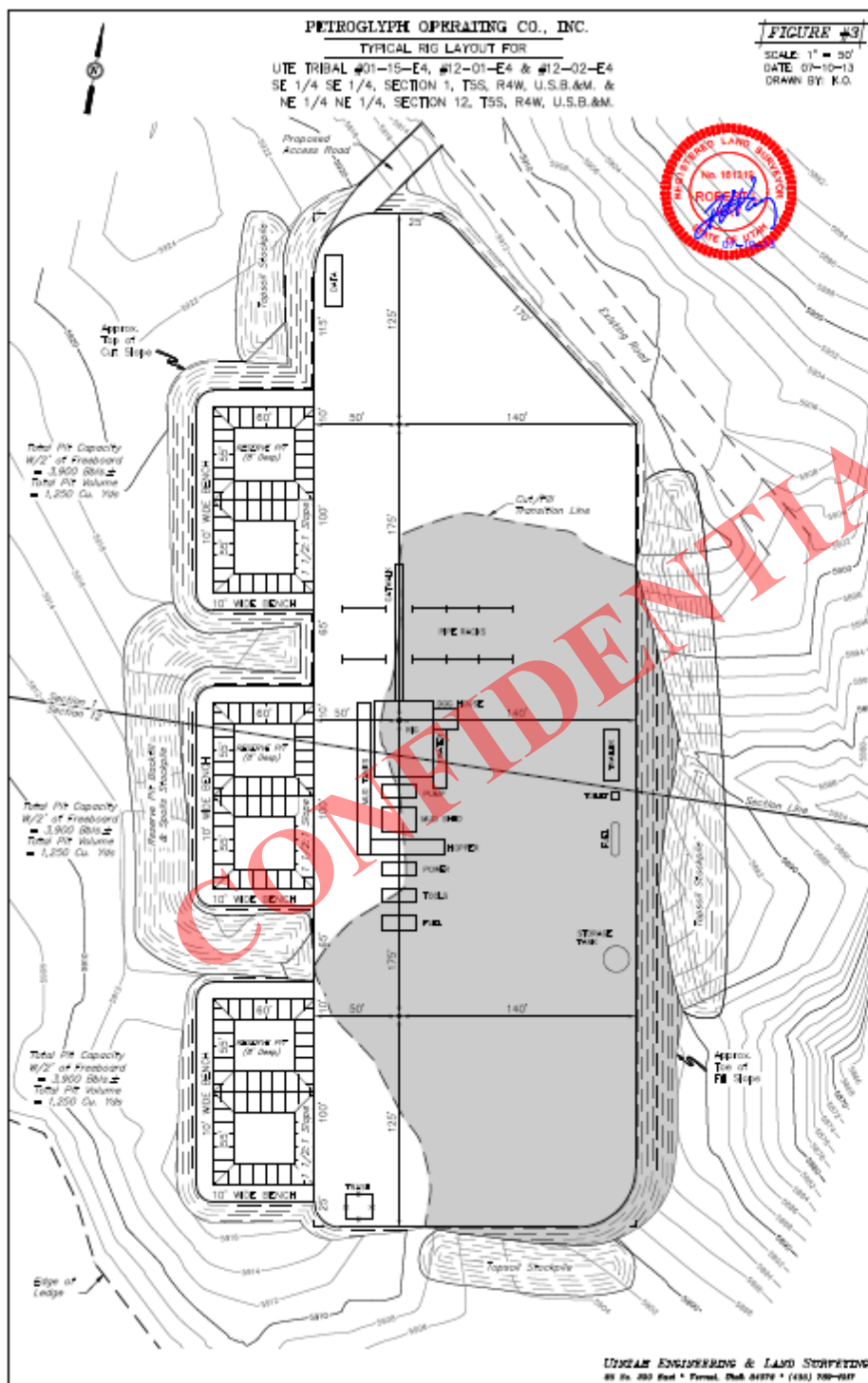
Certification

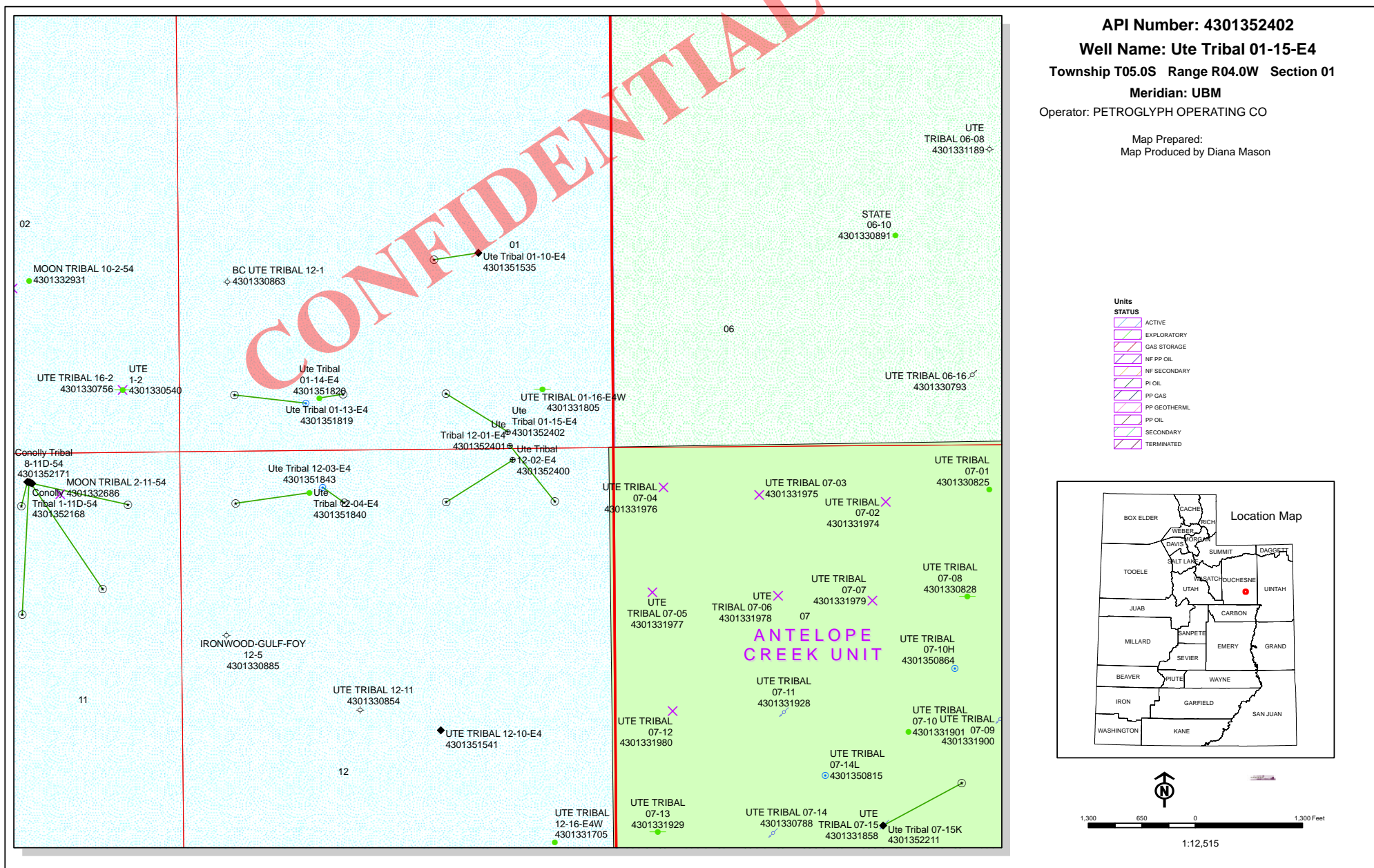
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

Please be advised that Petroglyph Operating Co., Inc. is considered to be the operator of the **UTE TRIBAL 01-15-E4 Well, located in SE/SE of Section 1, T5S, R4W, Duchesne County, Utah, lease #14-20-H62-4743**; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is provided under Bond #LPM4138153.

Date

Agent





WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 8/21/2013

API NO. ASSIGNED: 43013524020000

WELL NAME: Ute Tribal 01-15-E4

OPERATOR: PETROGLYPH OPERATING CO (N3800)

PHONE NUMBER: 435 789-4120

CONTACT: Ed Trotter

PROPOSED LOCATION: SESE 01 050S 040W

Permit Tech Review: ☒

SURFACE: 0194 FSL 1227 FEL

Engineering Review: ☐

BOTTOM: 0660 FSL 1980 FEL

Geology Review: ☒

COUNTY: DUCHESNE

LATITUDE: 40.06881

LONGITUDE: -110.27958

UTM SURF EASTINGS: 561433.00

NORTHINGS: 4435643.00

FIELD NAME: BRUNDAGE CANYON

LEASE TYPE: 2 - Indian

LEASE NUMBER: 1420H624743

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- ☒ PLAT
- ☒ Bond: INDIAN - LPM4138336
- ☐ Potash
- ☐ Oil Shale 190-5
- ☐ Oil Shale 190-3
- ☐ Oil Shale 190-13
- ☒ Water Permit: 43-8342
- ☐ RDCC Review:
- ☐ Fee Surface Agreement
- ☐ Intent to Commingle

Commingle Approved

LOCATION AND SITING:

- ☐ R649-2-3.
- Unit:
- ☐ R649-3-2. General
- ☒ R649-3-3. Exception
- ☒ Drilling Unit
- Board Cause No: R649-3-11
- Effective Date:
- Siting:
- ☒ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 1 - Exception Location - bhll
4 - Federal Approval - dmason
15 - Directional - dmason
23 - Spacing - dmason

RECEIVED: August 27, 2013



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Ute Tribal 01-15-E4
API Well Number: 43013524020000
Lease Number: 1420H624743
Surface Owner: INDIAN
Approval Date: 8/27/2013

Issued to:

PETROGLYPH OPERATING CO, 960 Broadway Avenue, Ste 500, Boise, ID 83703

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled,

completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas



Diana Mason <dianawhitney@utah.gov>

Re: Sundry For API Well Number 43013524010000

Bradley Hill <bradhill@utah.gov>

Wed, Oct 23, 2013 at 4:50 PM

To: Diana Mason <dianawhitney@utah.gov>

I'll have to check with Dennis to see if we need surface owner info. If he has it we can probably go with this even though it is pretty skimpy. .

Brad Hill P.G.
O & G Permitting Manager/Petroleum Geologist
State of Utah
Division of Oil, Gas, & Mining
Phone: (801)538-5315
Fax: (801)359-3940
email: bradhill@utah.gov

On Wed, Oct 23, 2013 at 8:09 AM, Diana Mason <dianawhitney@utah.gov> wrote:

This is the sundry Ed sent in. Do you need more info.?

On Wed, Oct 23, 2013 at 7:54 AM, Bradley Hill <bradhill@utah.gov> wrote:

I think Dennis was going out to look at them Monday. I will attach an SOB to the Sundry when I approve them.

Brad Hill P.G.
O & G Permitting Manager/Petroleum Geologist
State of Utah
Division of Oil, Gas, & Mining
Phone: (801)538-5315
Fax: (801)359-3940
email: bradhill@utah.gov

On Wed, Oct 23, 2013 at 6:27 AM, Diana Mason <dianawhitney@utah.gov> wrote:

How should we proceed with these? These now need a presite.

----- Forwarded message -----

From: **Ed Trotter** <edtrotter@easilink.com>

Date: Tue, Oct 22, 2013 at 5:09 PM

Subject: RE: Sundry For API Well Number 43013524010000

To: dianawhitney@utah.gov

Diana,

The UT 01-15-E4, UT 12-01-E4 & UT 12-02-E4 are all on fee surface and should be changed. I apologize for the error.

Thank you,
Ed

-----Original Message-----

From: dianawhitney@utah.gov [mailto:dianawhitney@utah.gov]

Sent: Tuesday, October 22, 2013 4:13 PM

To: edtrotter@easilink.com

Cc: dianawhitney@utah.gov

Subject: Sundry For API Well Number 43013524010000

Notice of Intent: OTHER

API Number: 43013524010000

Operator: PETROGLYPH OPERATING CO

Ed,

When this APD was sent in, it was marked that it was Indian lease so it should be fee?

No virus found in this message.

Checked by AVG - www.avg.com

Version: 2014.0.4158 / Virus Database: 3614/6771 - Release Date: 10/22/13

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H624743
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500, Boise, ID, 83703		8. WELL NAME and NUMBER: Ute Tribal 01-15-E4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0194 FSL 1227 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 01 Township: 05.0S Range: 04.0W Meridian: U		9. API NUMBER: 43013524020000
9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON		COUNTY: DUCHESNE
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 12/13/2013	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER:
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The file records for this well should be corrected to reflect that Petroglyph Operating Company, Inc. is the surface owner of this well.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: October 29, 2013

By:

NAME (PLEASE PRINT) Ed Trotter	PHONE NUMBER 435 789-4120	TITLE Agent
SIGNATURE N/A	DATE 10/21/2013	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43013524020000

See attached Statement of Basis and conditions of approval.

Application for Permit to Drill

Statement of Basis

10/29/2013

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
8477	43-013-52402-00-00	FILED	OW	I	No
Operator	PETROGLYPH OPERATING CO	Surface Owner-APD			
Well Name	Ute Tribal 01-15-E4	Unit			
Field	BRUNDAGE CANYON	Type of Work	DRILL		
Location	SESE 1 5S 4W U 194 FSL 1227 FEL GPS Coord (UTM) 561433E 4435643N				

Geologic Statement of Basis

The mineral rights for the proposed well are owned by the Ute Tribe. The BLM will be the agency responsible for evaluating and approving the drilling, casing and cement programs.

Brad Hill

10/29/2013

APD Evaluator**Date / Time****Surface Statement of Basis**

Topography at this proposed wellsite slopes southeast and shows a nine feet of cut on the northwest corner and ten to fifteen feet of fill along the southeast corners. There are two dry drainages that collect water and drain toward Antelope Canyon but they both head up along the western side of the location and should be a non-issue after the pad is constructed. Three reserve pits are planned immediately off the west side of this pad and will accommodate each individual well as it is drilled. Each of these pits shall be fenced to keep wildlife from entering them, and shall be lined with a 16 mil synthetic liner to prevent seepage. The location shall also be bermed to prevent fluids and spills from leaving the wellsite into the canyon below.

A presite was scheduled and performed to permit three wells on the same well pad, the Ute Tribal 01-15-E4, The Ute Tribal 12-01-E4, and the Ute Tribal 12-02-E4. These are split estate wells and have private surface owned by Petroglyph Operating Company, INC. Tribal Mineral interests were represented at the onsite by the BLM.

Dennis Ingram

10/21/2013

Onsite Evaluator**Date / Time****Conditions of Approval / Application for Permit to Drill**

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in the reserve pit.
Pits	The reserve pit should be located on the west side of the location.
Pits	The reserve pits shall be fenced to prevent wildlife and or stock from entering same.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H624743
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500, Boise, ID, 83703		8. WELL NAME and NUMBER: Ute Tribal 01-15-E4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0194 FSL 1227 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 01 Township: 05.0S Range: 04.0W Meridian: U		9. API NUMBER: 43013524020000
9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON		COUNTY: DUCHESNE
STATE: UTAH		
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/28/2014	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The date of first production for this well was 5/28/2014.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 03, 2014		
NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 6/2/2014	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H624743			
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE			
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		7. UNIT or CA AGREEMENT NAME:			
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500, Boise, ID, 83703		8. WELL NAME and NUMBER: Ute Tribal 01-15-E4			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0194 FSL 1227 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 01 Township: 05.0S Range: 04.0W Meridian: U		9. API NUMBER: 43013524020000			
9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON		COUNTY: DUCHESNE			
STATE: UTAH					
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 5/12/2014 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Please see attached.					
Accepted by the Utah Division of Oil, Gas and Mining June 05, 2014 Date: _____ By: <u>Derek Quist</u>					
NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc			
SIGNATURE N/A	DATE 5/7/2014				

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4743
2. NAME OF OPERATOR: Petroglyph Operating Company Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
3. ADDRESS OF OPERATOR: P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066		7. UNIT or CA AGREEMENT NAME: 14-20-H62-4650
4. LOCATION OF WELL FOOTAGES AT SURFACE: 194' FSL, 1227' FEL		8. WELL NAME and NUMBER: Ute Tribal 01-15-E4
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 1 5S 4W U		9. API NUMBER: 4301352402
PHONE NUMBER: (435) 722-2531		10. FIELD AND POOL, OR WILDCAT: Antelope Creek
COUNTY: Duchesne		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 5/12/2014	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input checked="" type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On or around 5/12/2014, depending on equipment availability, Petroglyph Operating intends to perforate the following: 4334-36, 4343-48, 4538-40, 4660-62, 4722-26, 4730-35, 4745-50, 4877-79, 5011-13, 5038-40, 5043-45, 5138-42, 5175-77, 5218-21, 5230-23, 5253-56, 5259-61, 5386-90, 5424-26, 5437-50, 5466-67, 5493-5508, 5543-48, 5607-18, 5652-58, 5767-69, 5808-12, 5825-28, 5850-53, 5897-5900, 5916-19, 5945-47, 5950-52, 5956-61, 5976-78, 5981-83, 5996-98, 6003-05, 6014-16, 6056-60, 6208-09, 6222-34, 6330-35, 6402-04, 6410-20, 6722-24, 6730-37, 6886-92, 6895-97, 6949-54, 7149-63, 7166-71, 7217-22, 7228-45. All perforations will be made using Titan 3-1/8" Perf Guns containing 22.7 gram charges, 0.42" EHD, 23.54" TTP @ 4 SPF @ 120* Phased. Using Halliburton 8K Composite Plugs for isolation we intent to fracture treat the following intervals:

7149-7245: 22,400 Gal of fluid containing 40,000#'s of sand,
6722-6954: 16,800 Gal of fluid containing 30,000#'s of sand, 6208-6420: 42,000 Gal of fluid containing 75,000#'s of sand,
5897-6060: 28,000 Gal of fluid containing 50,000#'s of sand, 5607-5853: 33,600 Gal of fluid containing 60,000#'s of sand,
5386-5548: 50,400 Gal of fluid containing 90,000#'s of sand, 5011-5261: 33,600 Gal of fluid containing 60,000#'s of sand,
4538-4879: 30,800 Gal of fluid containing 55,000#'s of sand & 4334-4348: 14,000 Gal of fluid containing 25,000#'s of sand.
Fluid used will be 15-18# gelled fluid and sand will be 20/40 Mesh Sand. All plugs will drilled out and cleaned out. The well will be swabbed back as needed before being put to pump. Fluid Volumes and amounts of sand are only estimates and will be adjusted as needed during the completion process. Actual figures will be reported at a later date.

NAME (PLEASE PRINT) Rodrigo Jurado TITLE Regulatory Compliance Specialist

SIGNATURE  DATE 5/7/2014

(This space for State use only)

AFFIDAVIT OF NOTICE

State of Idaho)
) ss
County of Ada)

I, Vera Johnson, the affiant herein, being of lawful age and duly sworn upon his oath deposes and states as follows:

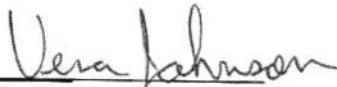
Vera Johnson is the Land Administrator for Petroglyph Energy, Inc., an Idaho Corporation, with headquarters located at 960 Broadway Avenue, Suite 500, Boise, ID 83706, and is duly authorized to make this Affidavit on behalf of said corporation.

Petroglyph Energy, Inc. has submitted notices to commingle production from the Wasatch and Green River formations in the following well lying within the boundaries of the Antelope Creek Plan of Cooperative Development – BIA Lease # UTE 14-20-H62-4742:

UTE TRIBAL 01-15-E4

This Affidavit is made in accordance with Utah's Oil, Gas and Mining regulation R649-3-22. As operator, Petroglyph Energy, Inc. is the only owner of contiguous oil and gas leases overlying the pool and no notice to other parties is necessary.

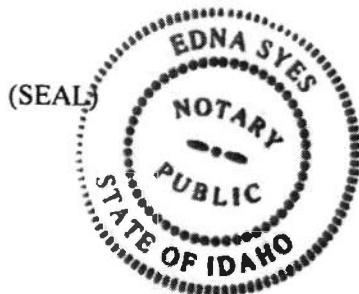
Petroglyph Energy, Inc.



Vera Johnson

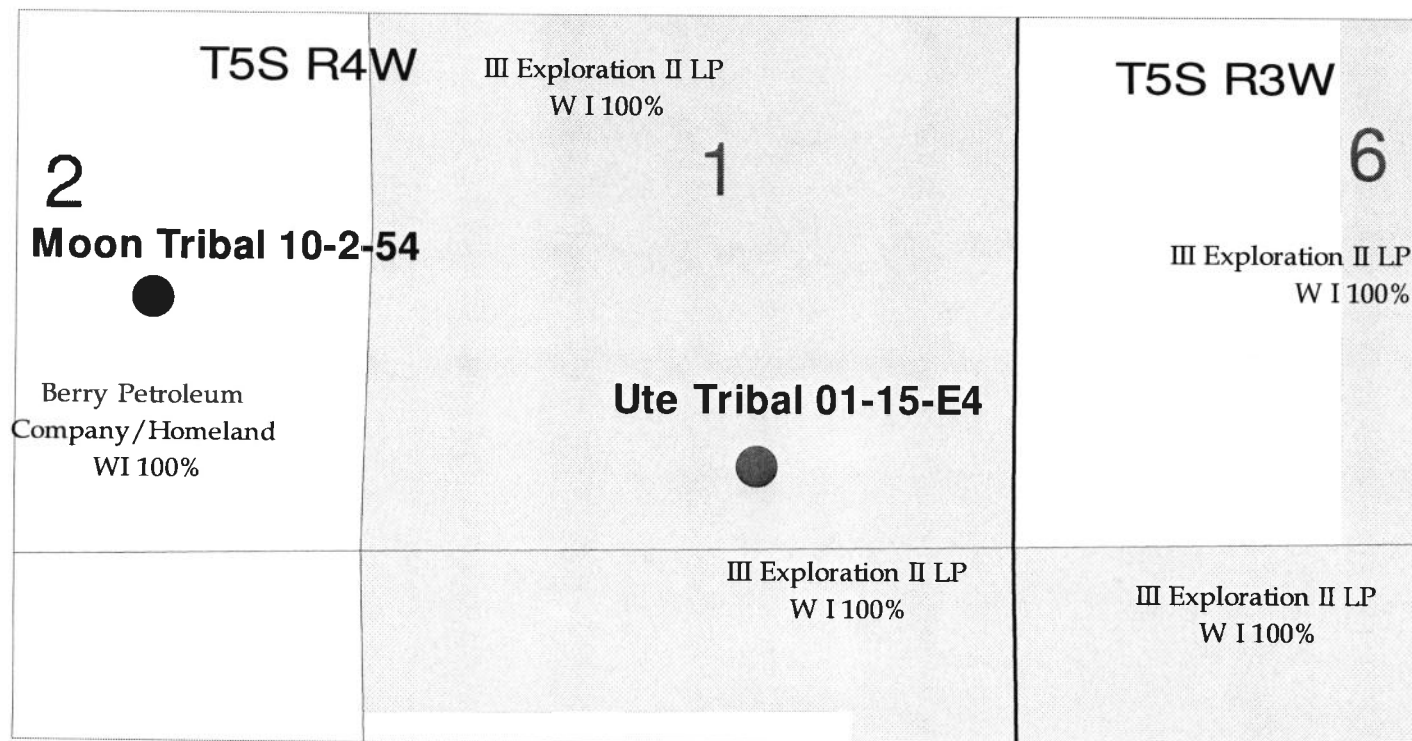
State of Idaho)
) ss
County of Ada)

The above and foregoing Affidavit was subscribed and sworn to before me on the 9 day of May, 2014, by Vera Johnson.

Witness my hand and official seal.




Notary Public
EXP: 23 June 2014



1 inch = 1500 feet



PETROGLYPH 		ANTELOPE CREEK	
		DUCHESNE COUNTY, UTAH	
Application for Commingling Ute Tribal 01-15-E4			
Checked By & Date JG	Petroglyph/Domestic Co. -> C-Trust/Trust Area -> Ute 992 -> Ute, SC 88707		
Last Revised By & Date 7-May-14	v101:CLEC-Ute-Region-01-15-E4.gmp		

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H624743			
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE			
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		7. UNIT or CA AGREEMENT NAME:			
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500, Boise, ID, 83703		8. WELL NAME and NUMBER: Ute Tribal 01-15-E4			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0194 FSL 1227 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 01 Township: 05.0S Range: 04.0W Meridian: U		9. API NUMBER: 43013524020000			
9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON		COUNTY: DUCHESNE			
STATE: UTAH					
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION	TYPE OF ACTION				
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<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Petroglyph Operating Inc. request permission to commingle oil and gas production from the Wasatch and Green River Formations on the well referenced above. Petroglyph Operating has made all necessary notifications in accordance with Utah's Oil, Gas, and Mining Regulation R649-3-22. Please see attached Affidavit of Notice and Map.					
Accepted by the Utah Division of Oil, Gas and Mining Date: June 17, 2014 By:					
Please Review Attached Conditions of Approval					
NAME (PLEASE PRINT) Rodrigo Jurado		PHONE NUMBER 435 722-5302			
SIGNATURE N/A		TITLE Regulatory & Compliance Spc			
DATE 6/2/2014					



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43013524020000

Commingling approved on previously submitted completion sundry.

AFFIDAVIT OF NOTICE

State of Idaho)
) ss
County of Ada)

I, Vera Johnson, the affiant herein, being of lawful age and duly sworn upon his oath deposes and states as follows:

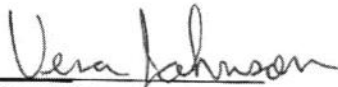
Vera Johnson is the Land Administrator for Petroglyph Energy, Inc., an Idaho Corporation, with headquarters located at 960 Broadway Avenue, Suite 500, Boise, ID 83706, and is duly authorized to make this Affidavit on behalf of said corporation.

Petroglyph Energy, Inc. has submitted notices to commingle production from the Wasatch and Green River formations in the following well lying within the boundaries of the Antelope Creek Plan of Cooperative Development – BIA Lease # UTE 14-20-H62-4742:

UTE TRIBAL 01-15-E4

This Affidavit is made in accordance with Utah's Oil, Gas and Mining regulation R649-3-22. As operator, Petroglyph Energy, Inc. is the only owner of contiguous oil and gas leases overlying the pool and no notice to other parties is necessary.

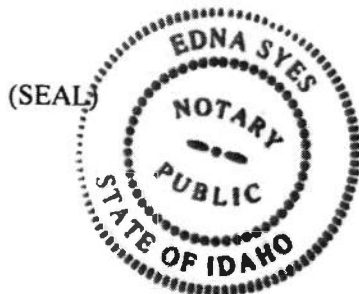
Petroglyph Energy, Inc.



Vera Johnson

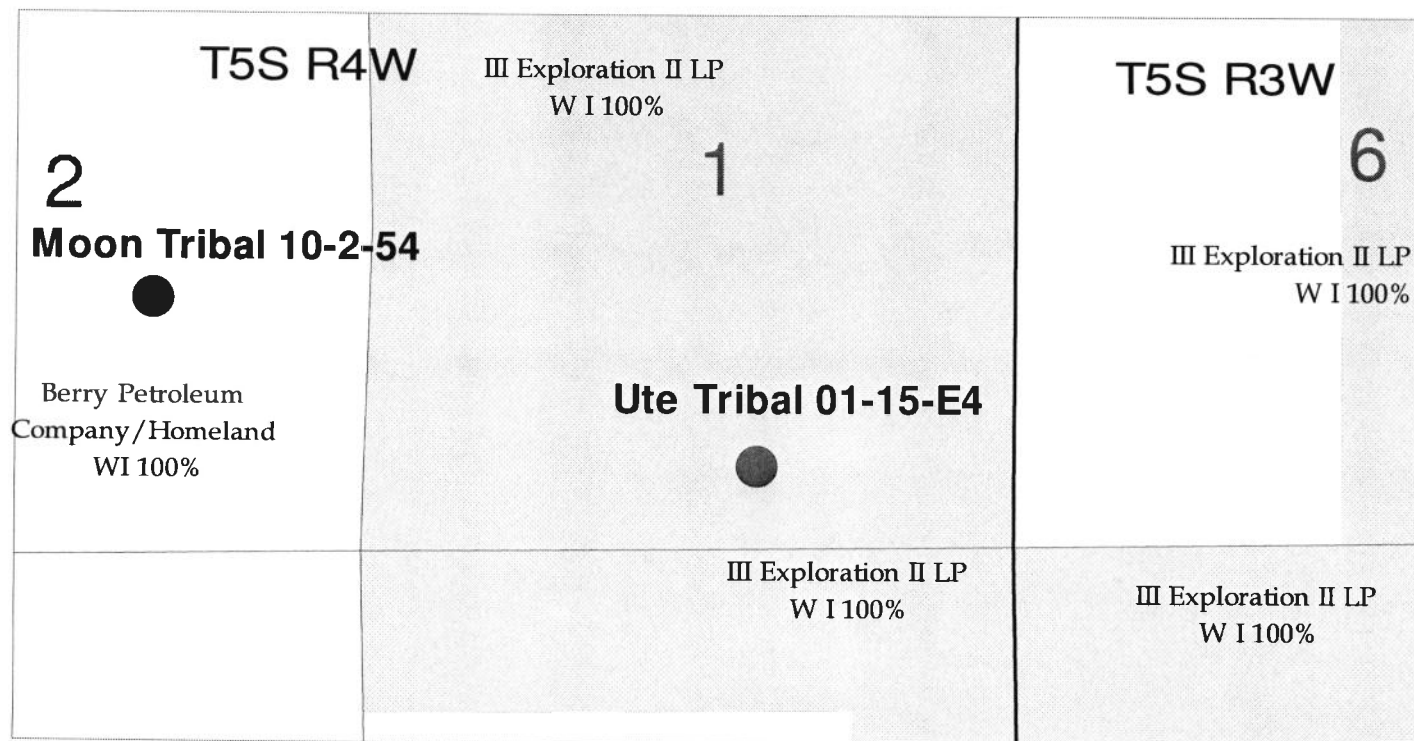
State of Idaho)
) ss
County of Ada)

The above and foregoing Affidavit was subscribed and sworn to before me on the 9 day of May, 2014, by Vera Johnson.

Witness my hand and official seal.





Notary Public
EXP: 23 June 2014



1 inch = 1500 feet



	PETROGLYPH
	ANTELOPE CREEK
DUCHESNE COUNTY, UTAH	
Application for Commingling Ute Tribal 01-15-E4	
Created By: J.G. Last Revised By: J.G. 7-May-14	Petroglyph Operating Co. - 1100 Broadway Ave. Suite 500, Bldg. 500, Salt Lake City, UT 84101 v:\E:\C\Ute\Regional\commingling 01-15-E4.gmp

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H624743
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500 , Boise, ID, 83703		8. WELL NAME and NUMBER: Ute Tribal 01-15-E4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0194 FSL 1227 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 01 Township: 05.0S Range: 04.0W Meridian: U		9. API NUMBER: 43013524020000
9. FIELD and POOL or WILDCAT: BRUNDAGE CANYON		COUNTY: DUCHESNE
STATE: UTAH		
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/4/2014	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input checked="" type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="text-align: center; padding: 20px;"> Please see attached. </div> <div style="text-align: right; padding: 20px;"> Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 09, 2014 </div>		
NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 10/1/2014	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4743
2. NAME OF OPERATOR: Petroglyph Operating Company Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
3. ADDRESS OF OPERATOR: P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066		7. UNIT or CA AGREEMENT NAME: 14-20-H62-4650
4. LOCATION OF WELL FOOTAGES AT SURFACE: 194' FSL, 1227' FEL		8. WELL NAME and NUMBER: Ute Tribal 01-15-E4
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 1 5S 4W U		9. API NUMBER: 4301352402
COUNTY: Duchesne		10. FIELD AND POOL, OR WILDCAT: Antelope Creek
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input checked="" type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 6/4/2014	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 4/30/2014 Petroglyph Operating ran GR/CBL and found ETOC @ 325'. On 5/7/2014 we then perforated the following: 6224-36, 6218-22, 6210-16, 6052-54, 6024-25, 6007-08, 5985-88, 5978-80, 5966-72, 5925-27, 5902-03, 5836-40, 5828-30, 5786-90, 5659-62, 5496-5516, 5473-75, 5444-50, 5435-33, 5412-14, 5404-07, 5234-37, 5222-25, 5209-19, 5202-02, 4805-07, 4733-47, 4583-86, 4378-80, 4306-10, 4291-94, 4106-12, 4066-68, 4062-64 & 4058-60. We isolated and fracture treated the following intervals:

6,210'-6,236': 670 Bbls of fluid containing 51,200#'s of sand,
 5,902'-6,054': 755 Bbls of fluid containing 51,200#'s of sand,
 5,659'-5,840': 417 Bbls of fluid containing 20,800#'s of sand,
 5,404'-5,516': 913 Bbls of fluid containing 86,700#'s of sand,
 5,200'-5,237': 574 Bbls of fluid containing 46,400#'s of sand,
 4,583'-4,807': 612 Bbls of fluid containing 51,000#'s of sand,
 4,291'-4,380': 439 Bbls of fluid containing 25,400#'s of sand & 4,058'-4,112': 567 Bbls of fluid containing 45,500#'s of sand.

Isolation plugs used were Halliburton 8K Composite Plugs, fluid used was Delta 140 18# gelled fluid, sand used was 20/40 Mesh Premium White Sand and guns used were Titan 3-1/8", containing 22.7 gram charges, 0.42" EHD, 23.54" TTP @ 4 SPF @ 120* Phased. All plugs were drilled out and cleaned out to PBTD, 7,680'. The well was swabbed until a good oil cut was see, then ran a pump on 6/4/2014 and put to pump.

NAME (PLEASE PRINT) <u>Rodrigo Jurado</u>	TITLE <u>Regulatory Compliance Specialist</u>
SIGNATURE 	DATE <u>10/1/2014</u>

(This space for State use only)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MININGAMENDED REPORT ☐ FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL:		OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input type="checkbox"/>	OTHER <input type="checkbox"/>	5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4743		
b. TYPE OF WORK:		NEW WELL <input checked="" type="checkbox"/>	HORIZ. LATS. <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	RE-ENTRY <input type="checkbox"/>	DIFF. RESVR <input type="checkbox"/>	OTHER <input type="checkbox"/>	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
2. NAME OF OPERATOR: Petroglyph Operating Company, Inc.						7. UNIT or CA AGREEMENT NAME: 14-20-H62-4650		
3. ADDRESS OF OPERATOR: P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066						PHONE NUMBER: (435) 722-2531	8. WELL NAME and NUMBER: Ute Tribal 01-15-E4	
4. LOCATION OF WELL (FOOTAGES): AT SURFACE: 194' FSL, 1227' FEL AT TOP PRODUCING INTERVAL REPORTED BELOW: 548' FSL, 1884' FEL SWSE Sec. 1 T5S R4W AT TOTAL DEPTH: 670' FSL, 2134' FWL SWSE Sec. 1 T5S R4W						9. API NUMBER: 4301352402		
10. FIELD AND POOL, OR WILDCAT: Antelope Creek						11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 1 5S 4W U		
12. COUNTY: Duchesne						13. STATE: UTAH		

14. DATE SPUDDED: 2/24/2014	15. DATE T.D. REACHED: 4/1/2014	16. DATE COMPLETED: 6/4/2014	ABANDONED <input type="checkbox"/>	READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): 5,922' RKB
18. TOTAL DEPTH: MD 7,758 TVD 7,652	19. PLUG BACK T.D.: MD 7,680 TVD 7,574	20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD PLUG SET: TVD	
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) ACTR, SDDSN, Borehole Volume Plot, Cement Bond Log				23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)	

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
26	16 J-55	75	0	73				0	Conductor
12.25	8.625 J-55	24	0	512		G 350	72	0	
8.785	5.5 J-55	15.5	0	6,225					
8.785	5.5 L-80	17	6,225	7,753		G 1,284	380	325'	CBL

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	6,278							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) Wasatch	6,210	6,236	6,105	6,131	6,210 6,236	0.42	88	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) Basal Carbonate	5,902	6,054	5,797	5,949	5,902 6,054	0.42	72	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C) Green River	4,058	5,840	3,968	5,735	4,058 5,840	0.42	420	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6,210'-6,236'	670 Bbls of Delta 140 18#'s of Gelled Fluid Containing 51,200#'s of 20/40 Mesh Sand.
5,902'-6,054'	755 Bbls of Delta 140 18#'s of Gelled Fluid Containing 51,200#'s of 20/40 Mesh Sand.
4,058'-5,840'	3,522 Bbls of Delta 140 18#'s of Gelled Fluid Containing 275,800#'s of 20/40 Mesh Sand.

29. ENCLOSED ATTACHMENTS:

<input checked="" type="checkbox"/> ELECTRICAL/MECHANICAL LOGS	<input type="checkbox"/> GEOLOGIC REPORT	<input type="checkbox"/> DST REPORT	<input checked="" type="checkbox"/> DIRECTIONAL SURVEY
<input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION	<input type="checkbox"/> CORE ANALYSIS	<input checked="" type="checkbox"/> OTHER: DOGM Form 7	

30. WELL STATUS:

POW

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 5/28/2014	TEST DATE: 6/26/2014	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL – BBL: 73	GAS – MCF: 19	WATER – BBL: 61	PROD. METHOD: Rod Pump
CHOKE SIZE: 28/64	TBG. PRESS. 1,050	CSG. PRESS. 1,000	API GRAVITY 41.50	BTU – GAS 1	GAS/OIL RATIO 260	24 HR PRODUCTION RATES: →	INTERVAL STATUS: Open

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

Used for Fuel

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Mahogany	2,730
				Garden Gulch	3,476
				B Marker	3,890
				X Marker	4,394
				Y Marker	4,428
				Douglas Creek	4,540
				B Lime	4,940
				Castle Peak	5,484
				Basal Carbonate	5,896
				Wasatch	6,168

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Rodrigo JuradoTITLE Regulatory Compliance SpecialistSIGNATURE DATE 10/27/2014

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

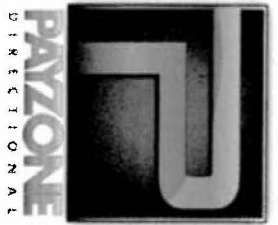
* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940



Job Number: UT141413
 Company: Petroglyph
 Lease/Well: Ute Tribal 01-15-E4
 Location: Sec 1, T5S,R4W
 Rig Name: Capstar 334
 RKB: ☐
 G.L. or M.S.L.: 5909

State/Country: Utah/USA
 Declination: 11.05
 Grid: True
 File name: C:\WINSERVE\UT141413.SVY
 Date/Time: 01-Apr-14 / 13:22
 Curve Name: Ute Tribal 01-15-E4_Actual

Payzone Directional Services LLC

WINSERVE SURVEY CALCULATIONS Minimum Curvature Method Vertical Section Plane 297.00 Vertical Section Referenced to Wellhead Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
901.00	5.00	308.20	900.66	6.49	-10.26	12.08	12.14	302.30	1.87
993.00	6.20	305.50	992.22	11.85	-17.45	20.93	21.10	304.18	1.34
1084.00	8.20	300.90	1082.50	18.04	-27.02	32.27	32.49	303.72	2.29
1175.00	10.50	302.30	1172.28	25.80	-39.60	47.00	47.27	303.08	2.54
1267.00	11.20	311.10	1262.64	36.16	-53.42	64.01	64.51	304.09	1.95
532.00	.00	258.74	532.00	.00	.00	.00	.00	258.74	.00
626.00	.10	220.51	626.00	-.09	-.46	.36	.46	247.11	.02
718.00	.30	304.25	717.99	-.29	-.70	.49	.76	276.66	.24
810.00	1.54	306.30	809.90	.22	-1.87	1.77	1.89	296.27	1.67
	3.30			2.48	-5.03	5.61	5.61		1.92

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S		E-W		Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
				FT	FT	FT	FT		Distance FT	Direction Deg	
1358.00	12.00	308.20	1351.79	47.82	-67.52	81.87	82.73	305.31	1.09		
1450.00	13.30	305.00	1441.55	59.80	-83.70	101.73	102.87	305.54	1.60		
1541.00	13.60	303.40	1530.06	71.69	-101.21	122.73	124.03	305.31	.53		
1632.00	13.70	302.90	1618.49	83.44	-119.19	144.08	145.49	304.99	.17		
1723.00	15.60	303.50	1706.52	96.04	-138.44	166.95	168.49	304.75	2.09		
1815.00	15.90	299.50	1795.07	109.08	-159.73	191.84	193.42	304.33	1.22		
1906.00	16.30	292.70	1882.51	120.15	-182.36	217.03	218.38	303.38	2.12		
1997.00	15.50	297.20	1970.03	130.63	-204.95	241.92	243.05	302.51	1.61		
2088.00	15.20	298.50	2057.79	141.88	-226.25	266.01	267.06	302.09	.50		
2179.00	15.60	292.60	2145.52	152.28	-248.04	290.13	291.05	301.55	1.78		
2271.00	15.60	292.61	2234.13	161.79	-270.87	314.80	315.51	300.85	.00		
2362.00	15.25	294.76	2321.86	171.50	-293.04	338.96	339.54	300.34	.74		
2453.00	15.30	298.14	2409.64	182.18	-314.49	362.92	363.45	300.08	.98		
2544.00	16.26	299.24	2497.21	194.06	-336.20	387.66	388.19	300.00	1.10		
2636.00	16.30	297.90	2585.52	206.40	-358.85	413.44	413.97	299.91	.41		
2727.00	15.07	297.09	2673.13	217.76	-380.67	438.04	438.55	299.77	1.37		
2818.00	15.30	295.00	2760.96	228.22	-402.08	461.87	462.33	299.58	.65		
2910.00	13.80	296.08	2850.01	238.18	-422.94	484.97	485.39	299.39	1.66		
3001.00	13.71	299.95	2938.40	248.33	-442.03	506.59	507.01	299.33	1.02		
3092.00	13.80	298.67	3026.79	258.92	-460.90	528.21	528.65	299.33	.35		
3184.00	14.24	298.58	3116.05	269.60	-480.46	550.49	550.93	299.30	.48		
3275.00	13.23	297.15	3204.44	279.71	-499.55	572.09	572.53	299.24	1.17		
3367.00	13.40	296.91	3293.97	289.34	-518.43	593.28	593.70	299.17	.19		
3458.00	12.92	295.11	3382.58	298.42	-537.04	613.99	614.39	299.06	.69		
3549.00	13.80	296.90	3471.12	307.65	-555.93	635.01	635.38	298.96	1.07		
3641.00	14.30	295.10	3560.37	317.44	-576.01	657.34	657.69	298.86	.72		
3732.00	13.10	291.70	3648.78	326.02	-595.77	678.84	679.14	298.69	1.59		
3823.00	11.90	295.80	3737.62	333.91	-613.80	698.49	698.75	298.55	1.64		
3914.00	10.70	294.60	3826.85	341.51	-629.93	716.31	716.55	298.46	1.34		
4006.00	9.10	296.10	3917.48	348.27	-644.23	732.12	732.34	298.40	1.76		
4097.00	8.30	294.20	4007.43	354.13	-656.68	745.88	746.08	298.34	.93		
4188.00	9.00	297.40	4097.40	360.10	-668.99	759.56	759.75	298.29	.93		
4280.00	8.90	296.20	4188.28	366.55	-681.77	773.87	774.06	298.26	.23		
4371.00	8.90	295.20	4278.18	372.66	-694.45	787.94	788.12	298.22	.17		

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S			E-W			Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
				FT			FT				Distance FT	Direction Deg	
4462.00	8.70	295.30	4368.11	378.60			-707.04			801.86	802.02	298.17	.22
4453.00	8.09	297.44	4458.14	384.49			-718.95			815.14	815.30	298.14	.75
4645.00	8.26	296.21	4549.20	390.39			-730.62			828.22	828.38	298.12	.27
4736.00	8.48	296.26	4639.23	396.24			-742.50			841.47	841.62	298.09	.24
4827.00	8.13	291.68	4729.28	401.59			-754.50			854.58	854.72	298.02	.82
4918.00	7.91	293.60	4819.39	406.47			-766.22			867.24	867.36	297.95	.38
5010.00	7.38	295.25	4910.57	411.53			-777.36			879.47	879.57	297.90	.62
5101.00	7.87	297.66	5000.77	416.91			-788.17			891.54	891.64	297.88	.64
5192.00	7.56	296.39	5090.94	422.47			-799.05			903.75	903.86	297.87	.39
5284.00	7.08	306.10	5182.20	428.50			-809.05			915.40	915.52	297.91	1.44
5375.00	6.15	305.79	5272.59	434.65			-817.54			925.76	925.90	298.00	1.02
5466.00	6.00	298.60	5363.08	439.78			-825.67			935.33	935.48	298.04	.85
5558.00	6.80	304.80	5454.51	445.19			-834.36			945.53	945.70	298.08	1.15
5649.00	6.00	303.10	5544.94	450.86			-842.77			955.60	955.79	298.15	.90
5740.00	5.20	299.90	5635.50	455.52			-850.33			964.45	964.65	298.18	.94
5832.00	4.10	298.10	5727.20	459.14			-856.84			971.90	972.11	298.18	1.21
5923.00	3.30	295.50	5818.01	461.80			-862.08			977.77	977.98	298.18	.90
6014.00	3.00	291.40	5908.87	463.80			-866.66			982.76	982.96	298.15	.41
6105.00	2.50	287.30	5999.77	465.26			-870.77			987.09	987.27	298.12	.59
6197.00	2.20	282.90	6091.69	466.25			-874.41			990.78	990.95	298.07	.38
6288.00	2.00	279.70	6182.63	466.91			-877.68			993.99	994.14	298.01	.25
6379.00	1.90	276.50	6273.58	467.35			-880.74			996.92	997.05	297.95	.16
6470.00	1.71	265.63	6364.53	467.41			-883.59			999.49	999.60	297.88	.43
6561.00	1.71	265.71	6455.49	467.21			-886.30			1001.81	1001.90	297.80	.00
6653.00	1.71	270.37	6547.45	467.11			-889.04			1004.21	1004.29	297.72	.15
6744.00	2.20	292.39	6638.40	467.79			-892.01			1007.16	1007.23	297.67	.98
6835.00	1.45	313.53	6729.35	469.25			-894.46			1010.01	1010.08	297.68	1.09
6927.00	1.32	316.21	6821.32	470.81			-896.04			1012.12	1012.20	297.72	.16
7018.00	1.10	316.56	6912.30	472.20			-897.37			1013.94	1014.02	297.75	.24
7109.00	.97	316.56	7003.29	473.40			-898.50			1015.48	1015.58	297.78	.14
7200.00	1.05	300.65	7094.28	474.38			-899.74			1017.04	1017.14	297.80	.32
7292.00	.83	289.18	7186.26	475.03			-901.10			1018.54	1018.64	297.80	.31
7383.00	.79	283.73	7277.25	475.40			-902.33			1019.81	1019.90	297.78	.10
7474.00	.80	274.60	7368.25	475.60			-903.57			1021.01	1021.10	297.76	.14

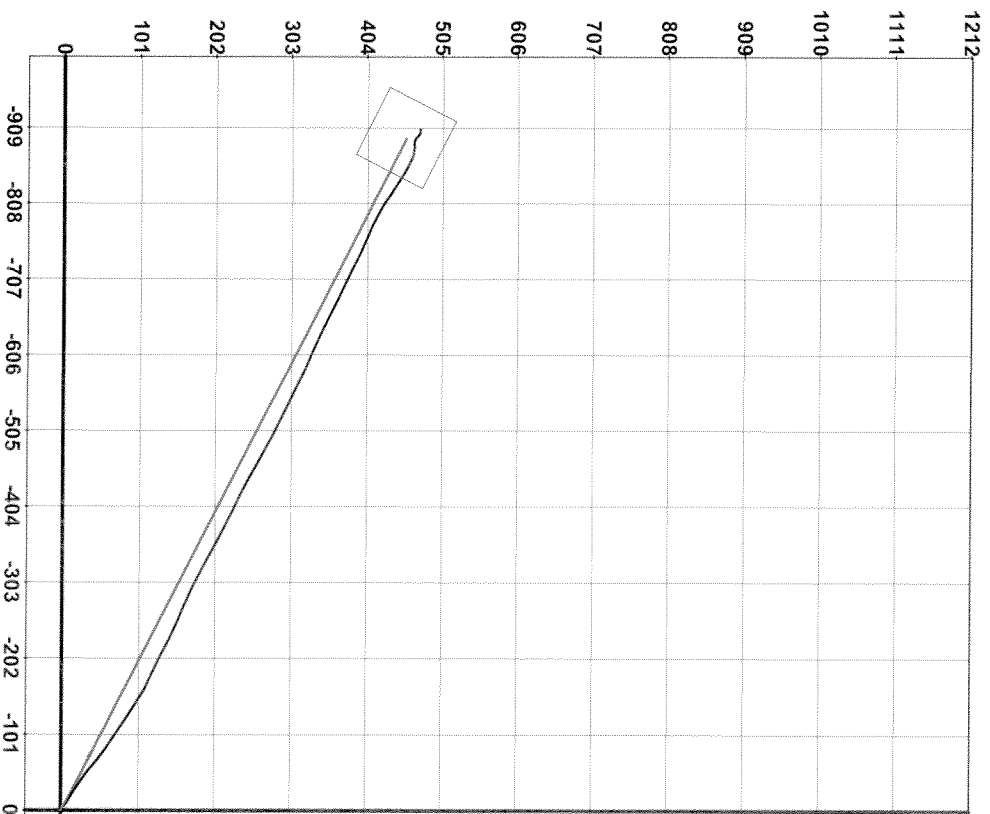
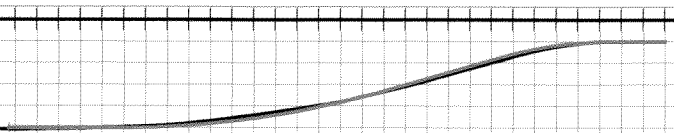
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
7565.00	.66	266.30	7459.24	475.61	-904.73	1022.04	1022.13	297.73	.19
7656.00	.59	270.50	7550.23	475.58	-905.72	1022.91	1022.99	297.70	.09
7702.00	.66	269.60	7596.23	475.58	-906.22	1023.36	1023.44	297.69	.15
Projection to Bit @TD									
7758.00	.66	269.60	7652.23	475.58	-906.87	1023.93	1024.00	297.67	.00

Job Number: UT141413
Company: Petroglyph
Lease/Well: Ute Tribal 01-15-E4
Location: Sec 1, T5S, R4W
Rig Name: Capstar 334
State/Country: Utah/USA

Declination: 11.05



250
500
750
1000
1250
1500
1750
2000
2250
2500
2750
3000
3250
3500
3750
4000
4250
4500
4750
5000
5250
5500
5750
6000
6250
6500
6750
7000
7250
7500
7750
8000
8250
8500
8750
9000
9250
9500



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STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 7

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well name and number: Ute Tribal 01-15-E4API number: 4301352402Well Location: QQ SESE Section 1 Township 5S Range 4W County DuchesneWell operator: Petroglyph Operating Company, Inc.Address: P.O. Box 607city Roosevelt state UT zip 84066Phone: (435) 722-2531Drilling contractor: ProPetro ServicesAddress: 1422 East 1500 Southcity Vernal state UT zip 84078Phone: (435) 789-1735

Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
0	512	0	No Water Encountered

Formation tops: (Top to Bottom)

1	2	3
4	5	6
7	8	9
10	11	12

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge.

NAME (PLEASE PRINT) Rodrigo JuradoTITLE Regulatory Compliance SpecialistSIGNATURE DATE 3/14/2014